

# FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

## COMPLETION DATA:

Date Well Completed 7-26-77

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_

Location Inspected

Bond released

State of Fee Land

## LOGS FILED

Driller's Log \_\_\_\_\_

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-I-S \_\_\_\_\_ GP \_\_\_\_\_ GRN \_\_\_\_\_ Micro \_\_\_\_\_

Lat. \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

10-2

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-0148171-A	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> and GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Crest Oil Corporation			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 2160, Rancho Palos Verdes, California 90274			8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1650' North of South Boundary, 330' East of West Boundary of Section 13, T 20 South, R 23 East, SLM At proposed prod. zone Same as above.			9. WELL NO. Crest 13-1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 miles North Cisco, Utah			10. FIELD AND POOL, OR WILDCAT Cisco Springs	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) N/A			11. SEC. T., R., M., OR BLE. AND SURVEY OR AREA Sec. 13, T 20 S, R 23 E, SLM	
16. NO. OF ACRES IN LEASE 280			12. COUNTY OR PARISH Grand	
17. NO. OF ACRES ASSIGNED TO THIS WELL 10			13. STATE Utah	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4678' GR			22. APPROX. DATE WORK WILL START* Upon issuance of permit	

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7"	20	125'	Circulate to Surface
6-1/4"	4-1/2"	9.5	To Prod. Zone	40 sacks

Hole to be drilled with air as far as possible  
Jacobs rotating head  
Regan 7" torus BOP  
Hydraulic closing unit - 6,000 PSI Test  
Casing spool - 6" 900 series 3,000 PSI  
Surface pipe and BOP will be tested to  
800 PSI before drilling act from under  
surface.

Baker model G float valve at bit  
String float at 1,200' depth.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

By: Crest Oil Corporation  
SIGNED [Signature] TITLE President DATE 11-19-75  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

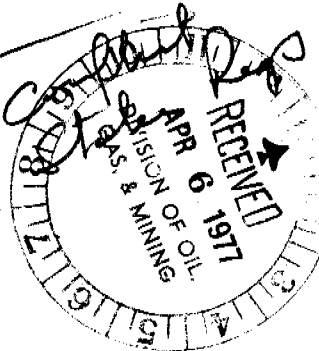
CONDITIONS OF APPROVAL, IF ANY:

**CIRCULATE TO:**

DIRECTOR ☒  
PETROLEUM ENGINEER ☒  
MINE COORDINATOR ☐  
ADMINISTRATIVE ASSISTANT ☒  
ALL ☐  
RETURN TO *Schert*  
FOR FILING

Conservation Division  
8440 Federal Building  
Salt Lake City, Utah 84138

April 5, 1977



Mr. Calvin Richardson  
2621 Prescott Road #200  
Modesto, California 95350

Re: Application for Permit to Drill  
Ketchum-Rich #1  
NW NE Sec. 12, T.20S., R.24E., SLM  
Lease U-5652

Dear Mr. Richardson:

On April 4, 1977, this office received the referenced application dated March 30, 1977.

We are returning your submittal unapproved because it is not in accord with NTL-6. We are enclosing a copy of NTL-6 together with copies of our check lists used in processing all applications.

Your application does not have your detailed proposal and requirements for pressure control. The 10 point checklist covers the points needed. It does not matter what the drilling contractor has, we need to know what your minimum requirements are. Your Form 9-331C does not show a well number in item #9; does not show proposed long string in item 23; the name of the operator on the form is shown as Calvin Richardson, yet within the attachments to the application the name Sundial Exploration Co. is used-which is correct? We have reason to believe that item 3 of your surface use plan is not accurate; item 7 needs input as to the disposal of human waste. If the plats marked drilling location plan and production equipment plan represent the same drill pad the location of the well is not the same on both; item 12 requires telephone numbers where the representative may be reached.

When you have assembled the additional information, please resubmit to this office for further consideration.

We would point out that the well location does not conform to State of Utah spacing. Please submit a copy of your application to the State of Utah, Oil, Gas and Mining Division at the same time as you do to us.

Sincerely yours,

(ORIG. SGD.) E. W. GUYNN

bcc: O&GS, NRMA, Casper  
U-5652  
Utah State Oil & Gas

E. W. Guynn  
District Engineer

WPM:ch

Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Sundial Exploration CO.

## 3. ADDRESS OF OPERATOR

Route 7, PO Box 237, Bakersfield, Ca.

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 1758 ft West of East line, 350 ft South of  
North line of Sec. 12, R 20 S, T 24 E.  
At proposed ~~prod. zone~~ Same at 1200 ft below surface.

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

10 miles E-NE of Sisco, Utah.

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

350 ft.

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.~~Re-entry~~

into dry well

## 16. NO. OF ACRES IN LEASE

658

## 19. PROPOSED DEPTH

1200 ft.

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

10

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4638.6 ft. above sea level

## 22. APPROX. DATE WORK WILL START\*

May 15, 1977

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 in.	7 in.	26lbs	120 ft.	1/2 cubic yard
6 1/2 in.	4 1/2 in.	12lbs	1200 ft.	1 1/2 cubic yard - 3 yd

L.C. H. &amp; L.

Proposed plan is to drill a wildcat well on Lease No. U-5652 to a depth of 1200 ft. in the same location as an existing dry well. The short string will be 120 ft. of 7 in. casing. The long string will be 660 ft. or more of 4 1/2 in. liner. We will be using 3 1/2 in. drill rod and a 6 1/2 in. drill bit. An in-line Hydril blowout preventer will be used in the drill rod string. A Shaffer mechanical control gate will be used in case high pressures are encountered. The pressure rating of these valves is 2000 PSI.

In case the well produces oil, production equipment will be installed as soon as possible. There will be no gas of commercial value found in this location.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED Calvin W. Richardson TITLE Field Operations Mgr.DATE April 15, 1977

(This space for Federal or State office use)

PERMIT NO.

B-019-50353

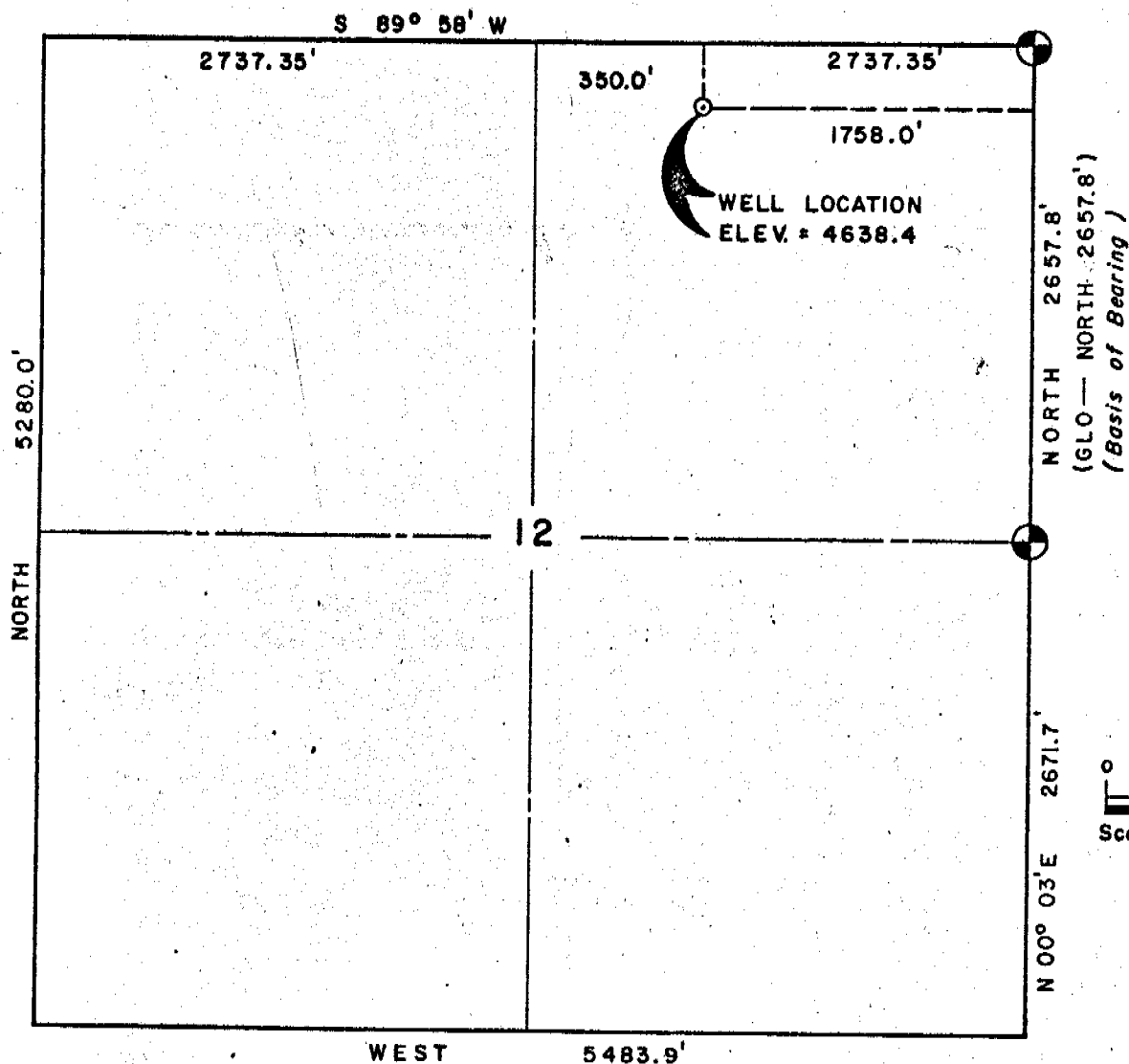
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



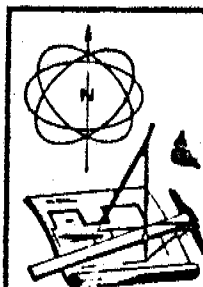
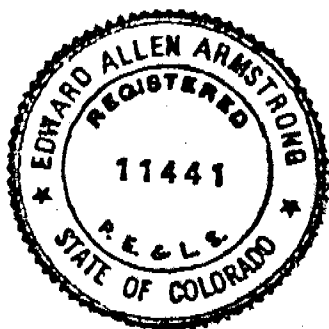
WELL LOCATION  
1758.0 FT. W.E.L. — 350.0 FT. S.N.L.  
SECTION 12, T.20S., R.24W., S.L.M.  
GRAND COUNTY, UTAH

PLAT 1B

### SURVEYOR'S CERTIFICATE

I, Edward A. Armstrong, a registered land surveyor in the State of Colorado, do hereby certify that this survey was made under my direct supervision and that this plat represents said survey.

*Edward A. Armstrong*  
EDWARD A. ARMSTRONG P.E. & L.S. 11441



**ARMSTRONG ENGINEERS**  
ENGINEERING — SURVEYING  
CONCRETE & SOILS TESTING

SCALE 1" = 1000'

DATE 3/24/77

DRAWN BY  
SAD

CHECKED BY

DATE OF SURVEY  
3/23/77

KETCHUM — RICH # 1  
— WELL LOCATION —

SHEET 1 of 1

JOB NUMBER  
771126

SUNDIAL EXPLORATION CO.  
OIL DRILLING PROGRAM  
GRAND COUNTY, UTAH

1. Existing Roads: A survey plat showing the location of the proposed well site is attached. See Plat #1. Map #1 shows the route to the well site from highway I-70. Map #2 shows the well site location. There are existing roads to the well site. From the secondary road to the well site is a trail about a quarter of a mile up a gentle slope to the top of a small hill. This trail is in good repair and will support heavy trucks for the drilling operation.
2. Planned Access Roads: If production is encountered, The trail will have to be graded and gravelled for all weather use. To do this will require no cuts, fills, cattle guards, nor culverts.
3. Existing Wells: See Map #2. We plan to go into an existing dry hole or directly adjacent to it.
4. Production Site: A production equipment layout is submitted on Plat #3 in case the well is successful. When production ceases, this equipment shall be removed and the land surface restored and reseeded.
5. Water Supply: A small amount of water will be used from Cottonwood Creek. See Map #1. This will be hauled by truck to the well site.
6. Road Material: No road material will be required for access to the drilling site.
7. Waste Disposal: A reserve and burn pit will be constructed at the well site. All excess water, mud, and drill cuttings will be deposited in the reserve pit. Burnable material and garbage will be put into the burn pit. Both of these pits will be folded in and covered as soon as possible after drilling operations are concluded. A self contained pickup camper will be used for personnel toilet facilities.
8. Camp Facilities and Airstrips: No camp facilities other than one camper will be needed at the well site. This camper will be serviced in Grand Junction, Colo. when needed. No airstrip will be needed.
9. Drilling Site: A plan for the drilling equipment layout is submitted on Plat #2. The ground area will be levelled for the equipment, and the natural slope of the area will be used for the pits. It will not be necessary to make any deep cuts or significant changes, since the surface is almost level. The reserve pit will be about 24 ft. by 24 ft. and about 4 ft. deep. The burn pit will be about 10 ft. by 10 ft. and about 4 ft. deep.

10. Restoration: After the drilling operations have been completed and the equipment removed, the well site area will be cleaned and leveled. The pits will be filled and the area reseeded if the well is dry. Otherwise the site will be used as described in paragraph 4.
11. Land Description: The well site is on the ridge of a small hill and is on gently sloping ground sparsely covered with small sage and cacti. The surface is Mancos shale.
12. Person in Charge: The person in charge at the well site will be either of two designated operators.

Operator #1 - Sidney Ketchum  
Rt. 7, P.O. Box 237  
Bakersfield, Ca. 93307  
(805) 831-3302

Operator #2 - Calvin Richardson  
2621 Prescott Rd. #200  
Modesto, Ca. 95350  
(209) 521-8209

The location and restoration work will probably be done by C & W Construction Co. of Moab, Utah. The drilling will be done by X L Drilling Co. of Montrose, Colorado.

13. Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Sundial Exploration Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: April 10, 1977.

*Calvin W. Richardson*  
Calvin W. Richardson  
Field Operations Manager

109°15'

39°07'30"

12°30"

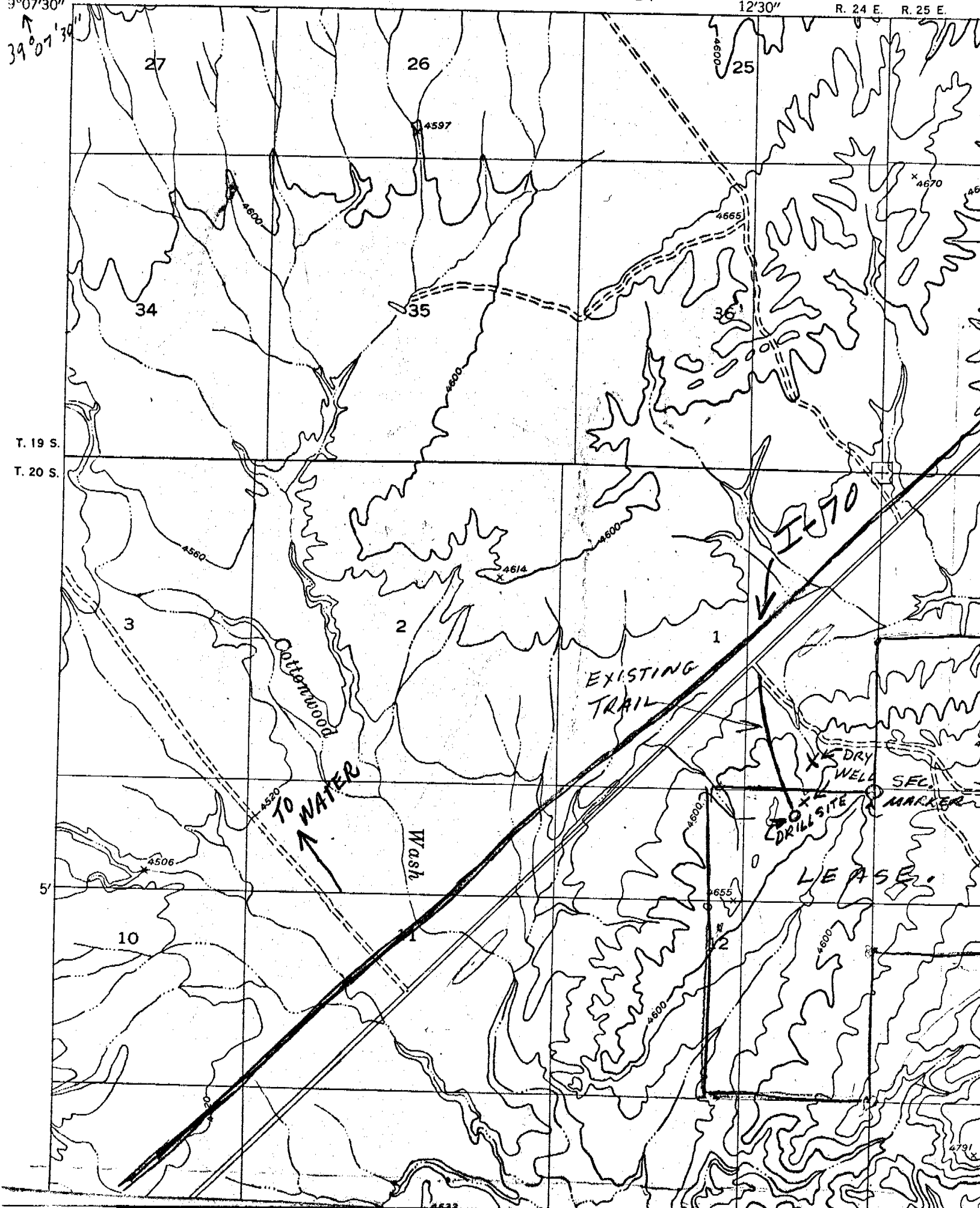
R. 24 E.

R. 25 E.

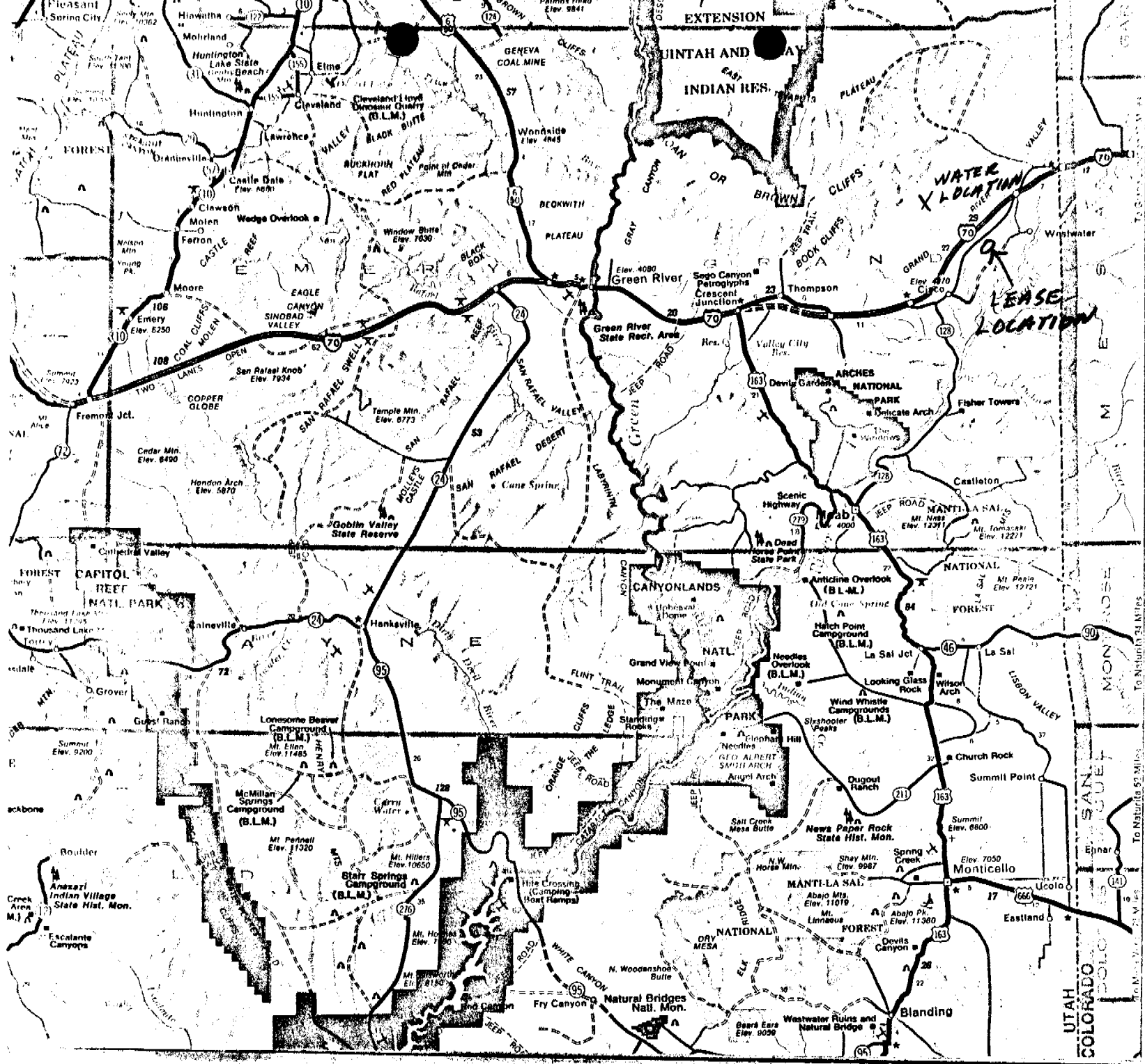
T. 19 S.

T. 20 S.

5'







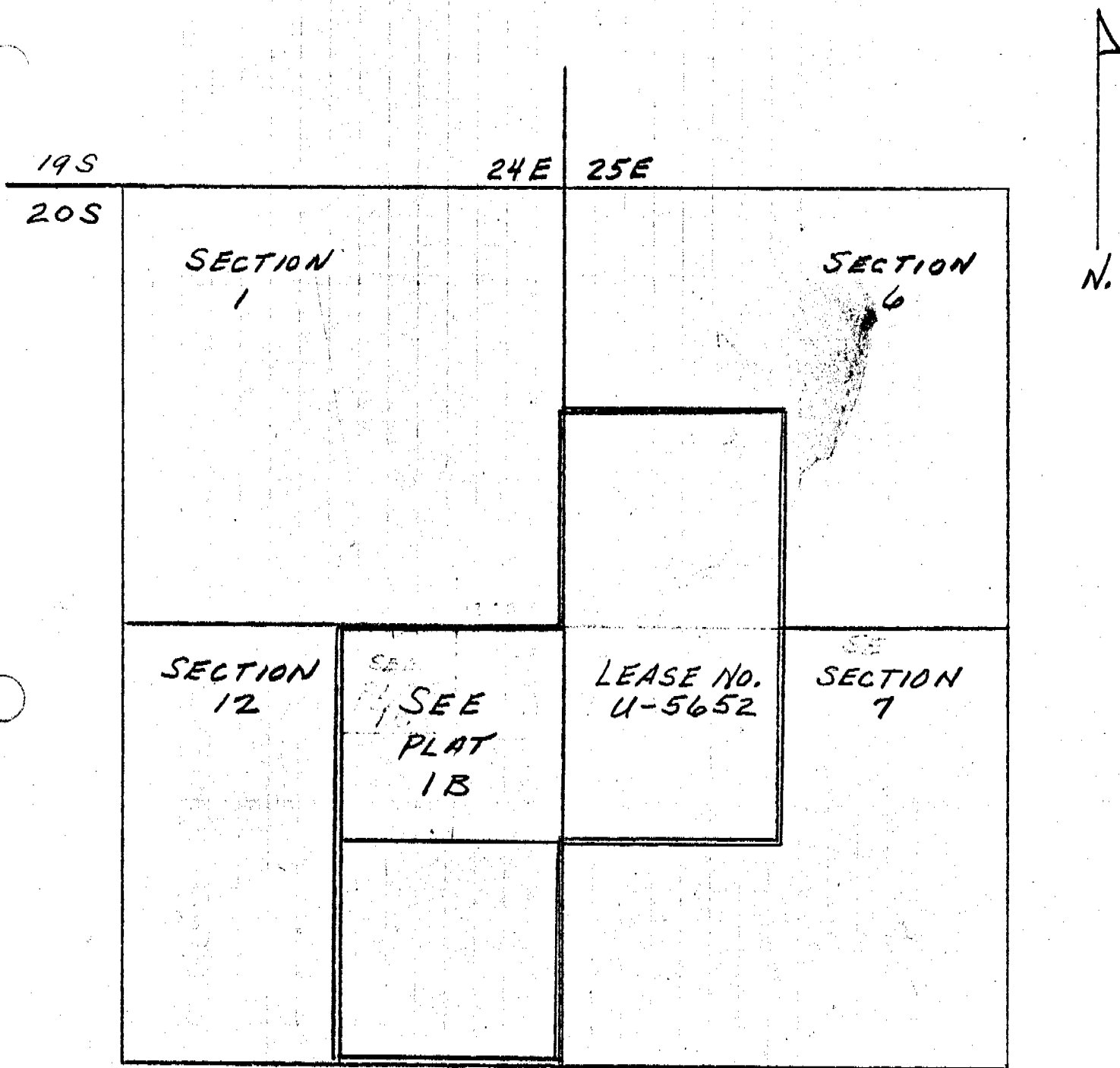
MAP #2

SUNDIAL EXPLORATION CO.

KETCHUM - RICH #1 WELL

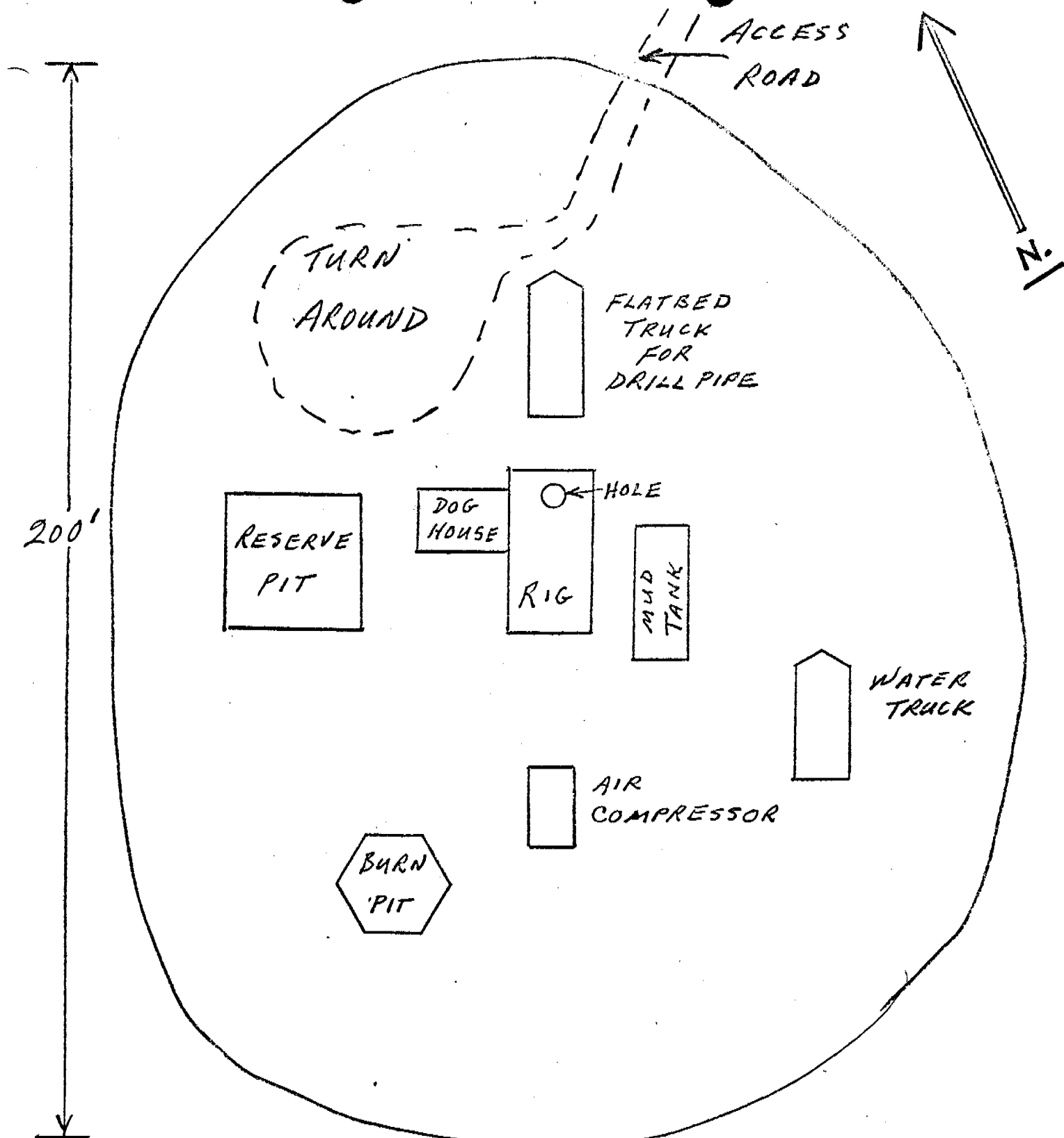
NW. NE. SEC 12 - 205-24E

GRAND COUNTY, UTAH.



SURVEY PLAT 1A  
SUNDIAL EXPLORATION CO  
NW, NE, SEC. 12 - 20S - 24E  
KETCHUM RICH #1

# DRILLING LOCATION PLAN



PLAT # 2

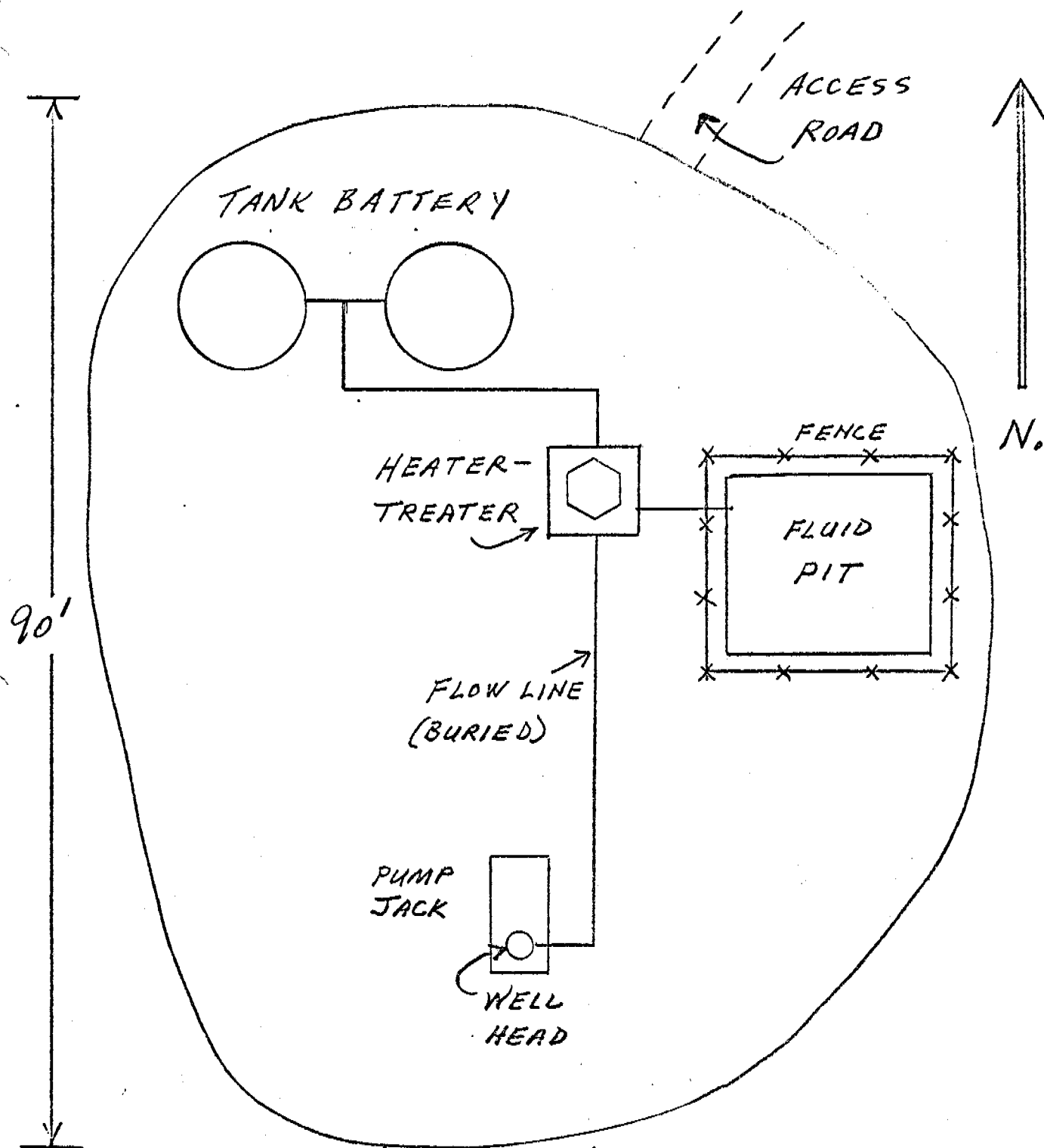
SUNDIAL EXPLORATION CO.

KETCHUM RICH #1 WELL

NW. NE. SEC. 12 - 20S - 24E

GRAND COUNTY, UTAH.

# PRODUCTION EQUIPMENT PLAN



PLAT # 3  
SUNDIAL EXPLORATION CO.  
KETCHUM RICH #1 WELL  
NW, NE SEC. 12 - 20S-24E.  
GRAND COUNTY, UTAH.

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:

SERIAL NO.: 45652

and hereby designates

NAME: Sundial Exploration Co.

ADDRESS: Rt 7 PO Box 237, Bakersfield, Ca.

Sydney Ketchum, President.

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Grand County, Utah.

T 20 S, R 24 E, SLM Sec. 12 Lots 1, 2, 3, 4, W-2 E-2.

T 20 S, R 25 E, SLM Sec. 6 Lots 6, 7, E-2 SW-4,

Sec. 7 Lots 1, 2, E-2 NW-4.

Containing 659.81 acres more or less.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

*Byron A. Brockbank*  
(Signature of lessee)

Rt. 1 Box 310

Prevo, Utah 84601  
(Address)

*April 5, 1977*  
(Date)

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: April 19-  
Operator: Sundial Exploration  
Well No: Ketchum - Rich #1  
Location: Sec. 12 T. 20S R. 24E County: Grand

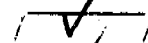
File Prepared



Card Indexed



API No ☒  
Entered on N.I.D.



Completion Sheet



CHECKED BY:

Administrative Assistant

Remarks:

Petroleum Engineer

Remarks:

Director

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required ☐

Order No. 102-5 ☒

Survey Plat Required ☐

Surface Casing Change ☐  
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In \_\_\_\_\_ Unit ☐

Other:

☒ Letter Written/Approved

Proved Applicant  
uses no less than  
1.5 cubic yds cement on  
surface pipe and  
utilize no less than  
2 yds on long  
string

April 25, 1977

Sundial Exploration Co.  
Route 7  
P.O. Box 237  
Bakersfield, California

Re: Well No. Ketchum-Rich #1  
Sec. 12, T. 20 S, R. 24 E,  
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-5. However, said approval is conditional upon the following:

- a) Applicant uses no less than 1.5 cubic yards of cement on the surface pipe and no less than 2 yards on the long string.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this office be notified within 24 hours after drilling operations have commenced, and that the Drilling Contractor and Rig Number be identified.

The API number assigned to this well is 43-019-30353.

Very truly yours,

CLEON B. FREIGHT  
Director

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

2. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER ☐

3. NAME OF OPERATOR

Sundial Exploration Co.

4. ADDRESS OF OPERATOR

Route 7, P.O. Box 237, Bakersfield, California 93302

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface -1758 FEL, 350 FNL, Sec. 12, T20S, R24E, Grand County,  
Utah

At proposed prod. zone

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

10 miles E-NE of Cisco, Utah

7. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

350'

8. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

None

9. NO. OF ACRES IN LEASE

658

10. NO. OF ACRES ASSIGNED  
TO THIS WELL

10

11. ELEVATIONS (Show whether DF, RT, GR, etc.)

4638' G.L.

12. APPROX. DATE WORK WILL START\*

May 15, 1977

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	20#	150'	To surface w/regular + 3% CaCl <sub>2</sub>
6 1/4"	4 1/2"	9.5#	1200'	75 sx regular + 2% CaCl <sub>2</sub>

We propose to rig up and drill a 8 3/4" hole to about 150' and set surface casing. After nipping up, the surface casing and BOP's will be pressure tested to about 500 psi. The shoe will be drilled and a 6 1/2" hole will be drilled to 1200' TD or until the Entrada formation has been penetrated. Should the well be productive, 4 1/2" casing will be run and cemented. It will then be perforated, tested, and stimulated if necessary. If the well is non-productive, permission will be secured and the well plugged and abandoned. Potentially productive intervals are the Dakota and Morrison group and the Entrada. Surface and production Casing will be new Grade K-55, Range 2 (30 foot joints) pipe. Well head equipment will consist of 2000 psi working pressure, 4000 psi test pressure equipment similar to a Larkin Figure 92. Blowout prevention equipment will consist of a 10" Series 900 flanged tandem-stacked double ram hydraulic actuated type similar to a Shaffer complete with an accumulator and controls for off-the-floor operation. Blind rams, 3 1/2" pipe rams, and a positive and adjustable choke will be

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED

*John A. Gordon*

TITLE

Consulting Engineer

DATE

5-10-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

JUN 23 1977

CONDITIONS OF APPROVAL, IF ANY:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Sundial Exploration Co.

## 3. ADDRESS OF OPERATOR

Route 7, P.O. Box 237, Bakersfield, California 93302

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface. 1758 FEL, 350 FNL, Sec. 12, T20S, R24E, Grand County,  
Utah

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

10 miles E-NE of Cisco, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

350'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

None

## 16. NO. OF ACRES IN LEASE

658

## 19. PROPOSED DEPTH

1200'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

10

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4638' G.L.

## 22. APPROX. DATE WORK WILL START\*

May 15, 1977

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	20#	150'	To surface w/regular + 3% CaCl <sub>2</sub>
6 1/4"	4 1/2"	9.5#	1200'	75 sx regular + 2% CaCl <sub>2</sub>

*Approval notice - Div of Oil, Gas Mining - Utah*

We propose to rig up and drill a 8 3/4" hole to about 150' and set surface casing. After nipping up, the surface casing and BOP's will be pressure tested to about 500 psi. The shoe will be drilled and a 6 1/2" hole will be drilled to 1200' TD or until the Entrada formation has been penetrated. Should the well be productive, 4 1/2" casing will be run and cemented. It will then be perforated, tested, and stimulated if necessary. If the well is non-productive, permission will be secured and the well plugged and abandoned. Potentially productive intervals are the Dakota and Morrison group and the Entrada. Surface and production Casing will be new Grade K-55, Range 2 (30 foot joints) pipe. Well head equipment will consist of 2000 psi working pressure, 4000 psi test pressure equipment similar to a Larkin Figure 92. Blowout prevention equipment will consist of a 10" Series 900 flanged tandem-stacked double ram hydraulic actuated type similar to a Shaffer complete with an accumulator and controls for off-the-floor operation. Blind rams, 3 1/2" pipe rams, and a positive and adjustable choke will be

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*John S. Gordon*

TITLE Consulting Engineer

DATE 5-10-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (ORIG. SGD.) W. P. MARTENS

TITLE

*Acting*  
DISTRICT ENGINEER

DATE JUN 23 1977

CONDITIONS OF APPROVAL, IF ANY:

6/8/77

Suicidal Exploration  
Will # Fed # 1  
sec 12, T 20S., R 24E  
Grand, Utah  
U-5652

U.S.G.S. - COOK  
BL. M - Crunett  
Sundiel - Gordon

<input checked="" type="checkbox"/> 0	ENHANCES
<input type="checkbox"/>	NO IMPACT
<input type="checkbox"/> /	MINOR IMPACT
<input type="checkbox"/> X	MAJOR IMPACT

Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others
Roads, bridges, airports	Burning, noise, junk disposal	Well drilling	Trucks	Spills and leaks	
Transmission lines, pipelines	Liquid effluent discharge	Fluid removal (Prod. wells, facilities)	Pipelines	Operational failure	
Dams & impoundments	Subsurface disposal	Secondary Recovery	Others		
Others (pump stations, compressor stations, etc.)	Others (toxic gases, noxious gas, etc.)	Noise or obstruction of scenic views			
		Mineral processing (ext. facilities)			
		Others			

Land Use	Forestry	N.A.									
	Grazing	✓	/	/	/	/	/	/	/	/	
	Wilderness	N.A.									
	Agriculture	N.A.									
	Residential-Commercial	N.A.									
	Mineral Extraction	N.A.									
	Recreation	✓	0	/	/	/	/	/	/	/	
	Scenic Views	✓	/	/	/	/	/	/	/	/	
	Parks, Reserves, Monuments	N.A.									
	Historical Sites		none known								
Flora & Fauna	Unique Physical Features	N.A.									
	Birds	✓	/	/	/	/	/	/	/	/	
	Land Animals	✓	/	/	/	/	/	/	/	/	
	Fish	N.A.									
	Endangered Species		none known								
	Trees, Grass, Etc.	✓	/	/	/	/	/	/	/	/	
	Surface Water	N.A.									
	Underground Water	?									
	Air Quality	✓			/	/	/	/	/	/	
	Erosion	✓	/	/	/	/	/	/	/	/	
Phy. Charact.	Other										
	Effect On Local Economy	✓	0	0		0		0			
Safety & Health											
		✓	/	/	/	/	/	/	/	/	
Others	Ding - Juke Burn - Meale w/o motor Reg - Senie State Oil & Gas										

Lease

U-5652

Well No. & Location

# Federal #1 Sec. 12, T20N, R24E

Grand, Utah

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

Sundial Exploration Co PROPOSES TO DRILL AN OIL AND GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 1,200 FT. TD. 2) TO CONSTRUCT A DRILL PAD 100 FT. X 100 FT. AND A RESERVE PIT 30 FT. X 30 FT. 3) TO CONSTRUCT — FT. X — MILES ACCESS ROAD AND UPGRADE — FT. X — MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

Location site on ~~some~~ small rolling hills.

Vegetation is sagebrush, saltbrush, and other small desert plants.

Wildlife in the area is ~~a few~~ small desert animals and reptiles with no known endangered species.

Primary surface use of the area is grazing.

There are no known historical sites that would be affected and no evidence of archeological sites was noted.

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE,

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT == THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) *No nearby location could be found that would justify this action.*

5. Adverse Environmental Effects which cannot be avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM BIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.


6)

6. Determination

(This requested action ~~does~~ (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 6/8/77

Inspector J.H. Cook

  
U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Sundial Exploration #1 3rd.	1158' FEL, 350' FNL, SEC. 12, T20S R24E SLM, GRAND CO, UTAH GREL 4638'	U-5652
<p>1. Stratigraphy and Potential Oil and Gas Horizons. The surface rocks are the Ferron Sandstone. Delila Cook well #1-A, sec. 2 Twp same, reported the following tops: Mancos - Surf., Dakota - 998', Cedar Mtn - 1134', Buckhorn - 1315', T. D. 1338'.</p> <p>2. Fresh Water Sands.</p> <p>See WRD report on page 2.</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Lands within prospectively valuable for coal. Coal beds (minor) are in the Ferron Sandstone member of the Mancos Shale.</p> <p>4. Possible Lost Circulation Zones.</p> <p>Unknown.</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.</p> <p>Unknown.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients.</p> <p>Unknown.</p> <p>7. Competency of Beds at Proposed Casing Setting Points.</p> <p>Probably adequate.</p> <p>8. Additional Logs or Samples Needed. Logs to indicate the coal intervals of the Ferron Sandstone.</p> <p>9. References and Remarks</p> <p>None.</p>		
Date: 6-27-77		Signed: emp

Depths of fresh-water zones:

Ute Production Co. Operator #1, UTE-FED #3, Gravel Pile Field

2,420' fcl, 520' fsl, sec 35, T 19 S, R 24 E, Grand County, Utah

Elev 4,589 ft; proposed depth 1,500 ft

Stratigraphic units	Tops, approx.	Quality of water
Mancos Shale	surface	useable (?) where present in upper sandstone units to 500 ft
Dakota Sandstone	1,200 ft	saline
Morrison Formation	1,300 ft	saline
Salt Wash Member	1,500 ft	saline

There are no water wells of record in the near vicinity of the proposed test.

Useable (?) water may be found in the lenticular sandstone units of the Mancos Shale to depths of about 500 feet. Deeper aquifers contain saline water.

USGS - WRD  
10-13-71

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING  
\*\*\*\*\*

Well Name and Number Ketchum-Rich Fed #1  
Operator SUNDIAL EXPLORATION  
Address RT 7 BOX 237, BAKERSFIELD, CA 93309  
Contractor X-L DRILLING  
Address MONTROSE, COLO. [307 MAIN ST, SUITE #6]  
Location 1/4, 1/4, Sec. 12; T. 20~~X~~ S R. 24~~X~~ E; GRAND County  
1758 FEL, 350 FNL S X

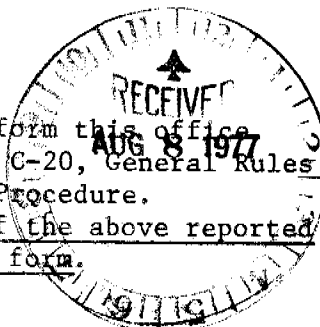
Water Sands:

	<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>
	From- To-	Flow Rate or Head -	Fresh or Salty -
1.	<u>300 - 300</u>	<u>SLIGHT WATER</u>	<u>FRESH ?</u>
2.		<u>SHOW (NOT MEASURABLE)</u>	
3.			
4.			
5.			

(Continue on Reverse Side if Necessary)

Formation Tops:

- NOTE: (a) Upon diminishing supply of forms, please inform this office.  
(b) Report on this form as provided for in Rule C-20, General Rules And Regulations and Rules of Practice and Procedure.  
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.







# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Utah State Office  
University Club Building  
136 East South Temple  
Salt Lake City, Utah 84111

IN REPLY REFER TO

3000

(U-942)

Serial No. U-0148171-A

Date JUN 15 1978

GEOLOGICAL SURVEY  
RECEIVED  
JUN 21 1978  
CASPER, WYOMING

To: Geological Survey, Regional Supervisor, Casper, Wyoming

From: Chief, Minerals Section

Subject: Request for Geological Survey Report Release of \$10,000 Cash  
Deposit in lieu of Lease Drilling Bond

☐ (Total, Partial) Assignment  
Assignee:

☒ Lands in:

T. 20 S., R. 23 E. Sec. 13

☐ See attachment

Sec. \_\_\_\_\_

Sec. \_\_\_\_\_

☒ Other

Does your office have any objection to the release of \$10,000 cash deposit held in lieu of a lease drilling bond with Crest Oil Corporation as obligor.

Enclosure  
Drilling Permit

*S. Pallik*

Date JUL 19 1978

Geological Survey Reply:

☐ Lease account (is, is not) in good standing.

☐ Final abandonment of well unapproved.

☒ We (do, ~~do not~~) object to bond termination as of \_\_\_\_\_

☐ We (do, do not) object to the above request.

☐ Other

*Producing GAS well - Keep bond in force*

*R.B. Heath*





# United States Department of the Interior

IN REPLY REFER TO

3000

(U-942)

Serial No. U-0148171-A

BUREAU OF LAND MANAGEMENT  
Utah State Office  
University Club Building  
136 East South Temple  
Salt Lake City, Utah 84111

Date JUN 15 1978

U.S. GEOLOGICAL SURVEY  
RECEIVED  
JUN 21 1978  
CASPER, WYOMING

To: Geological Survey, Regional Supervisor, Casper, Wyoming

From: Chief, Minerals Section

Subject: Request for Geological Survey Report; Release of \$10,000 Cash  
Deposit in lieu of Lease Drilling Bond

☐ (Total, Partial) Assignment Assignee: XX Lands in:

☐ See attachment

T. 20 S., R. 23 E. Sec. 13

Sec. \_\_\_\_\_

Sec. \_\_\_\_\_

☒ Other

Does your office have any objection to the release of \$10,000 cash deposit held in lieu of a lease drilling bond with Crest Oil Corporation as obligor.

Enclosure  
Drilling Permit

/s/ L. POLLOCK

Geological Survey Reply:

Date JUL 19 1978

☐ Lease account (is, is not) in good standing.

☐ Final abandonment of well unapproved.

☒ We (do, ~~do not~~) object to bond termination as of \_\_\_\_\_

☐ We (do, do not) object to the above request.

☐ Other *Producing GAS Well Keep bond in force RB/ht*



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER ☐

3. NAME OF OPERATOR  
Sundial Exploration Co.

4. ADDRESS OF OPERATOR  
Route 7, P.O. Box 237, Bakersfield, California 93302

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface. 1758 FEL, 350 FNL, Sec. 12, T20S, R24E, Grand County, Utah  
At proposed prod. zone

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
10 miles E-NE of Cisco, Utah

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit lline, if any) 350'

8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

9. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4638' G.L.

10. NO. OF ACRES IN LEASE 658

11. PROPOSED DEPTH 1200'

12. NO. OF ACRES ASSIGNED TO THIS WELL 10

13. ROTARY OR CABLE TOOLS Rotary

14. APPROX. DATE WORK WILL START  
May 15, 1977

5. LEASE DESIGNATION AND SERIAL NO.  
U-5652

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Ketchum-Rich

9. WELL NO.  
Federal #1

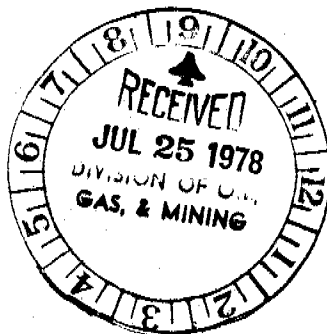
10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA  
Sec. 12, T20S, R24E  
SLB+M

12. COUNTY OR PARISH  
Grand

13. STATE  
Utah

Approval notice - Chief, Bureau of Land and Minerals Operations BLM - Salt Lake City



RECEIVED  
STATE OFFICE  
SALT LAKE CITY, UTAH

JUL 28 AM 12 00

eventer program, if any.

SIGNED John L. Gordon TITLE Consulting Engineer DATE 5-10-77

(This space for Federal or State office use)

PERMIT NO. (ORIG. SGD.) W. P. MARTENS APPROVAL DATE Active

APPROVED BY DISTRICT ENGINEER DATE JUN 23 1977

CONDITIONS OF APPROVAL, IF ANY:



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Utah State Office  
University Club Building  
136 East South Temple  
Salt Lake City, Utah 84111

IN REPLY REFER TO

3000  
(U-942)

Serial No. U-7623

Date

JUN 19 1978  
U.S. GEOLOGICAL SURVEY  
RECEIVED  
JUN 21 1978  
CASPER, WYOMING

To: Geological Survey, Regional Supervisor, Casper, Wyoming

From: Chief, Minerals Section

Subject: Request for Geological Survey Report, \$10,000 Oil and Gas Bond No.  
MSC-33-85-61

☐ (Total, Partial) Assignment  
Assignee:

☒

☐ See attachment

T. 20 S., R. 23 E. Sec. 13, S $\frac{1}{2}$  NW $\frac{1}{4}$ , SLM, Utah  
Sec. \_\_\_\_\_  
Sec. \_\_\_\_\_

☒ Other

Does your office have any objection to the termination of the period of liability on \$10,000 Oil and Gas Bond No. MSC-33-85-61, naming Isabelle Thomas, principal and the Hanover Insurance Company, surety?

/s/ L. POLLOCK

Geological Survey Reply:

Date

☐ Lease account (is, is not) in good standing.

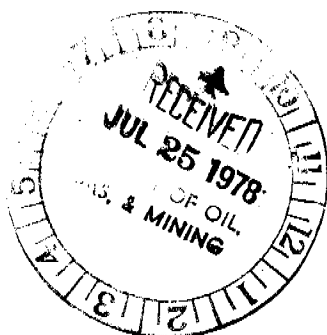
☒ Final abandonment of well unapproved.

☐ We (do, do not) object to bond termination as of \_\_\_\_\_

☐ We (do, do not) object to the above request.

☐ Other *Keep bond in force*

*RB Neath*



SCOTT M. MATHESON  
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

I. DANIEL STEWART  
*Chairman*

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

CLEON B. FEIGHT  
*Director*

August 18, 1978

Sundial Exploration Company  
Route 7, PO Box 237  
Bakersfield, California 93302

RE: Well No. Ketchum Rich #1  
Sec. 12, T. 20S, R. 24E  
Grand County, Utah  
June 1977-July 1978

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, & MINING

Tammy Edge  
Typist

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(On instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-5652 (Federal)
2. NAME OF OPERATOR SUNDIAL EXPLORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Route 7, Box 237, Bakersfield, CA 93309		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1758 FEL, 350 FNL, Sec 12, T20S, R24E Grand County, Utah		8. FARM OR LEASE NAME
14. PERMIT NO. U5652		9. WELL NO. KETCHUM-Richards
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4638 GL		10. FIELD AND POOL, OR WILDCAT wildcat
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec 12 T20S, R24E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

June 29, 1977 Drilled 8 3/4" hole and cemented 126' of 7" casing

July 23, 1977 Moved in rig, hook up and tested BOPE,

July 24, 1977 Drilled 5 1/2" hole to 700'

Slight show of water (not measurable) at 300'

" " " Gas ( " ) at 475'

Ran TES log (Birdwell already sent to USGS)

July 25, 1977 Filled hole 90 sacks Cement (30 sack) TD to 100ft.

July 26, 1977 Used 10 sack Cement at surface & set marker

Back filled excavations and leveled surface

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: Sept. 1, 1978

18. I hereby certify that the foregoing is true and correct

SIGNED

*S. J. Ketchum*

TITLE BY

*P. H. Small*

DATE

8/26/78

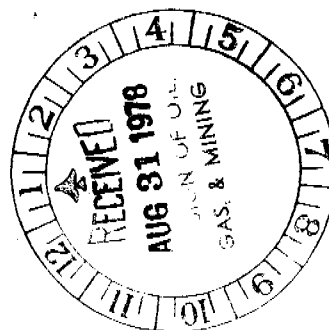
(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



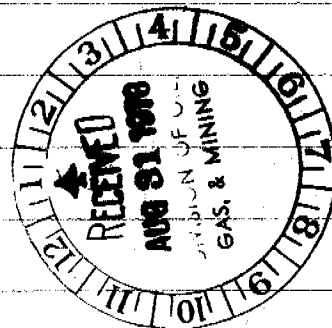
8/26/78

State of Utah, Div of Oil Mining  
1588 West Natl. Temple  
Salt Lake City, Utah 84116

Enclosed is 3 copies of your form OGC-16. I  
filed the same data with USGS (duplicate form 9-331) on  
8/3/77 and again on 5/31/78. I also filed form 9-330  
in duplicate on 8/3/77.

I apologize for not filing your forms, but I  
thought that the above filings would be sufficient.

L J Ketchum  
Sundial Exploration  
Route 7 Box 237  
Bakersfield, CA 93309



CALVIN L. RAMPTON  
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
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GUY N. CARDON  
Chairman

CHARLES R. HENDERSON  
ROBERT R. NORMAN  
I. DANIEL STEWART  
HYRUM L. LEE

CLEON B. FEIGHT  
Director

September 1, 1978

Sundial Exploration Company  
Route 7, P. O. Box 237  
Bakersfield, California 93302

Re: Well No. Ketchikan Rich #1  
Sec. 12, T. 20S, R. 24E,  
Grand County, Utah

Gentlemen:

This letter is to advise you that the "Well Completion or Recompletion Report and Log" and electric and or radioactivity logs for the above referred to well are due and have not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3 in duplicate, and forward them to this office as soon as possible. If electric and or radioactivity logs were not run, please make a statement to this effect in order that we may keep our records accurate and complete.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Kathy Ostler*  
KATHY OSTLER  
RECORDS CLERK



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-5652 (Federal)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☒ Other ☐

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

Ketchum High #1

10. FIELD AND POOL, OR WILDCAT

wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 12 T205 R24E

b. TYPE OF COMPLETION:  
NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Abandon

2. NAME OF OPERATOR

Lundail Exploration

3. ADDRESS OF OPERATOR

Rt 7 Box 237, Bakersfield, CA 93309

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

1758 FEL, 350 FNL, Sec 12 T205 R24E Grand Co. Utah

At top prod. interval reported below

At total depth

14. PERMIT NO.

U5652

DATE ISSUED

June 1977

12. COUNTY OR PARISH

Grand

13. STATE

Utah

15. DATE SPUNDED

6/24/77

16. DATE T.D. REACHED

7/24/77

17. DATE COMPL. (Ready to prod.)

7-26-77

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

4638' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

700' TD

21. PLUG, BACK T.D., MD &amp; TVD

Plugged to Surface

22. IF MULTIPLE COMPLETIONS, HOW MANY\*

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND SURVEY)

none

26. TYPE ELECTRIC AND OTHER LOGS RUN

Birdwell IES

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"		126'	8 3/4"	Cemented at 126' with 15 yd	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none					none		

31. PERFORATION RECORD (Interval, size and number)

none

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
none	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	→				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

none

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

none

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Ketchum

TITLE

DATE

9/15/78

\*(See Instructions and Spaces for Additional Data on Reverse Side)